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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Kshirsagar, Tushar Ashok

Patent No.: 7888349 Application No.: 10/596895

Dated: 15-FEB-2011 Confirmation No. 1940

Title: PIPERAZINE, [1,4]DIAZEPANE, [1,4]DIAZOCANE, AND [1,5]DIAZOCANE

FUSED IMIDAZO RING COMPOUNDS

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1.322 AND 1.323

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR § 1.8(a)]

| Office of Publication | I hereby certify that this correspondence is being: | |
|--|---|---|
| Attn: Certificate of Correction Branch P.O. Box 1450 Alexandria, VA 22313-1450 | | ited States Patent and Trademark Office on the date shown ice electronic filing system. |
| | deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. | |
| | □ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at 571-273-8300. | |
| | October 3, 20 | 11 /Joyce M. Courtney/ |
| | Date | Signed by: Joyce M. Courtney |

Dear Sir:

It is respectfully requested that a Certificate of Correction be issued in connection with the above-identified patent. The required text is submitted on the attached form.

The errors are attributable to both the Applicant(s) and the Patent and Trademark Office.

Application No.: 10/596895 Case No.: 59407US010

Fees

- Any required fee will be made at the time of submission via EFS-Web. In the event fees are not or cannot be paid at the time of EFS-Web submission, please charge any fees under 37 CFR § 1.20(a) which may be required to Deposit Account No. 13-3723. ☐ Please charge any fees under 37 CFR §§ 1.20(a), 1.16 and 1.17 which may be required to Deposit Account No. 13-3723. Please charge any additional fees associated with the prosecution of this application to Deposit Account No. 13-3723. This authorization includes the fee for any necessary extension of time under 37 CFR § 1.136(a). To the extent any such extension should become necessary, it is hereby requested.
- ☑ Please credit any overpayment to the same deposit account.

Respectfully submitted,

September 25, 2011

Date

Office of Intellectual Property Counsel

3M Innovative Properties Company Facsimile No.: 651-736-3833

By: /Ted K. Ringsred/

Ted K. Ringsred, Reg. No.: 35,658 Telephone No.: 651-736-5839

CERTIFICATE OF CORRECTION

PATENT NO.: 7888349

DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 4

Line 46, delete "—(R6)—" and insert - - —C(R6)— - -, therefor.

Line 63, delete "heteroarylalkylenyl" and insert --heteroarylalkylenyl,--, therefor.

Column 5

Lines 6-7, delete "methylenedioxy," and insert - - methylenedioxy; - -, therefor.

Line 12, delete "group-consisting" and insert - - group consisting - -, therefor,

Line 37, delete "R_{B1}," and insert - - R_{B1} - -, therefor.

Line 41, below "halogen," insert - - alkyl, - -.

Column 6

Lines 21-22, delete "methyleneoxy; fuirther" and insert - - methylenedioxy; further - -, therefor.

Column 8

Line 67, delete "thereof" and insert - - thereof. - -, therefor.

Column 11

Line 7, after "and" insert - - - N(R₄)--: - -.

Line 11, delete " $-C(R_8)$ --" and insert - - $-C(R_6)$ -- -, therefor.

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OFFICE OF INTELLECTUAL PROPERTY COUNSEL 3M INNOVATIVE PROPERTIES COMPANY 3M CENTER - P.O. BOX 33427 SAINT PAUL, MINNESOTA 55133-3427 PATENT NO. 7888349

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CERTIFICATE OF CORRECTION

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PATENT NO.: 7888349

DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tush

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Lines 26-38,

$$delete "$$

" and insert

$$(R)_n \xrightarrow{(R_3)_m} X$$

IV

- -, therefor.

Column 19

Line 32, delete "substitutent." and insert - - substituent. - -, therefor.

Lines 42-43, delete "—X'—Y'—X'—" and insert — —X"—Y'—X"— --, therefor.

Column 20

Line 1, delete "I-VU" and insert - - I-VII - -, therefor.

Line 11, delete "heteroatom:" and insert - - heteroatom - -, therefor.

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CERTIFICATE OF CORRECTION

PATENT NO.: 7888349

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DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21

Line 47, delete "-(O)-" and insert - - -C(O)-- -, therefor.

Column 22

Line 62, delete "allylarylenyl," and insert - - alkylarylenyl, - -, therefor.

Column 24

Lines 12-13, delete "irnmunomodulator" and insert - - immunomodulator - -, therefor.

Column 26

Line 45, delete " $R_1S(O)_2CI$ " and insert - $R_1S(O)_2CI$, - -, therefor. Line 49, delete " $R_1S(O)_2CI$ " and insert - $R_1S(O)_2CI$, - -, therefor.

Column 30

Line 36, delete "XXII," and insert - - XXIII, - -, therefor.

Column 32

Line 26, delete "XX." and insert - - XXXI. - -, therefor. Line 27, delete "X," and insert - - XXXI, - -, therefor.

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PATENT NO.: 7888349

DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 33

Line 22, delete "X'," and insert - - X", - -, therefor.

Line 24, delete "XXXIII" and insert - - XXXII - -, therefor.

Lines 34-35, delete "X lundergoes" and insert - - XXXIII undergoes - -, therefor.

Line 62, delete "XVIII." and insert - - XXXVII. - -, therefor.

Column 34

Line 40, delete "XXVII" and insert - - XXXVII - -, therefor.

Column 35

Line 27, delete "X'-" and insert - - X"- - -, therefor.

Column 36

Line 31, delete "tetrahydrofliran" and insert - - tetrahydrofuran - -, therefor.

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and

PATENT NO.:

7888349

DATED:

15-FEB-2011

FIRST NAMED INVENTOR:

Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 37-38 Line 3.

delete

delete

insert

therefor.

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PATENT NO .: 7888349

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DATED:

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

and

insert

Line 4,

delete

XLVI

XLVI

Column 37

Line 60, delete "XLVI" and insert - - XLVIII - -, therefor.

- -, therefor.

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PATENT NO. 7888349

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PATENT NO.: 7888349

DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 42

Line 60, delete "LVII" and insert - - LVIII - -, therefor.

Column 44

Line 61, delete "hetereogeneous" and insert - - heterogeneous - -, therefor.

Column 45

Lines 27-28, delete "[1,5]naphthyridin" and insert - - quinolin - -, therefor.

Line 67, delete "substitued" and insert - - substituted - -, therefor.

Column 47

Lines 55-56, delete "hepadnavirns" and insert - - hepadnavirus - -, therefor.

Column 48

Line 4, delete "carnii" and insert - - carinii - -, therefor.

Line 11, delete "myelogeous" and insert - - myelogenous - -, therefor.

Line 19, delete "thrombocythaemia," and insert --thrombocythemia, --, therefor.

Line 38, delete "hemophilus" and insert - - haemophilus - -, therefor,

Column 50

Line 53, delete "carbatnate" and insert - - carbamate - -, therefor,

Line 61, delete "mnmol)" and insert - - mmol) - -, therefor.

Line 64, delete "and," and insert - - and - -, therefor.

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PATENT NO.: 7888349

DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 54

Line 48, delete "iridazo" and insert - - imidazo - -, therefor.

Line 66, delete "N." and insert - - N, - -, therefor.

Column 57

Line 66, delete "amninopropyl)" and insert - - aminopropyl) - -, therefor.

Column 58

Line 26, delete "mnL)." and insert - - mL). - -, therefor.

Column 93

Line 32, delete "(32.2" and insert - - (32.3 - -, therefor.

Columns 95-69

Line 8, delete "imidazolecaboxaldehyde" and insert --imidazolecarboxaldehyde--,

therefor.

Column 113

Line 40, delete "NN" and insert - - N,N - -, therefor.

Columns 127-128

Line 6, after "Butvlbenzovl" insert - - chloride - -.

Columns 129-130

Line 8, delete "Dichlorobenozyl" and insert - - Dichlorobenzoyl - -, therefor.

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CERTIFICATE OF CORRECTION

PATENT NO.: 7888349

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DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 133-134

Line 7, delete "Thiosulfonyl" and insert - - Thiophenesulfonyl - -, therefor.

Column 153

Line 56, after "mol" insert - - in - -.

Column 154

Line 58, delete "amnino" and insert - - amino - -, therefor.

Column 155

Line 8, delete "(1 L)" and insert - - (1 mL) - -, therefor.

Column 166

Line 34, delete "CELITE" and insert - - CELITE - -, therefor.

Column 167

Line 27, delete "dichlormethane" and insert -- dichloromethane --, therefor. Line 43, delete "dichlormethane" and insert -- dichloromethane --, therefor. Lines 50-51, delete "naphthyridin" and insert -- naphthyridine --, therefor.

Column 169

Line 57, delete "-etrahydro" and insert - - -tetrahydro - -, therefor.

Column 171

Line 44, delete "quinohne" and insert - - quinoline - -, therefor.

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PATENT NO.:

7888349

DATED:

15-FEB-2011

FIRST NAMED INVENTOR:

Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 173

Line 3, delete "1H)" and insert - - 1H), - -, therefor.

Column 174

Line 64, delete "p-toluenesulfnyl" and insert - - p-toluenesulfonyl - -, therefor.

Column 178

Line 5, delete "n-propagol" and insert - - n-propagol - -, therefor.

Line 45, delete "Sarnple" and insert - - Sample - -, therefor.

Line 53, delete "HHLC" and insert - - HPLC - -, therefor.

Columns 181-182

Line 12, delete "pyrzole" and insert - - pyrazole - -, therefor.

Columns 193-194

Line 13, delete "Dimehylthiocarbamoyl" and insert --Dimethylthiocarbamoyl-, therefor.

Column 210

Line 11, delete "Example" and insert - - Examples - -, therefor.

Columns 209-210

Line 17, delete "Isovaleradehyde" and insert - - Isovaleraldehyde - -, therefor.

Column 215

Line 26, delete " $[1 \propto$," and insert -- [1', --, therefor.

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CERTIFICATE OF CORRECTION

PATENT NO.: 7888349

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DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

-, therefor.

Columns 215-216

Line 41,

Column 218

Line 66, delete "(10 B)" and insert - - (10H) - -, therefor.

Column 219

Line 9, delete "ml)." and insert - - mL). - -, therefor.

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PATENT NO.: 7888349

DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 233-234

Line 9,

insert -- , therefor.

Columns 235-236 Line 9,

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PATENT NO.: 7888349

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DATED: 15-FEB-2011

FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 266

Line 5, delete "difluropropane" and insert - - difluoropropane - -, therefor.

Column 268

Line 9, delete "Lipopolysaccaride" and insert - - Lipopolysaccharide --, therefor. Line 44, delete "Lipopolysaccaride" and insert - - Lipopolysaccharide --, Line 44, delete "typhimuriumn," and insert -- typhimurium, --, therefor.

Column 269

 $\label{eq:linear_line$

Column 271

Line 11, in Claim 1, delete "alkyene;" and insert - - alkylene; - -, therefor.

Line 13, in Claim 1, delete "alkoxy-C₁" and insert - - alkoxy-C₁₋₁₀ - -, therefor.

Line 67, in Claim 5, delete "alkenyl, alkenyl," and insert - - alkenyl, alkynyl, - -, therefor.

Column 272

Line 2, in Claim 5, delete "alkylheteroaryienyl," and insert --alkylheteroarylenyl,--, therefor.

Lines 14-15, in Claim 5, delete "alkenyl, alkenyl," and insert --alkenyl, alkynyl,--, therefor

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FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 274

Line 37, in Claim 6, delete "alkenyl, alkenyl," and insert --alkenyl, alkynyl, --,

Line 40, in Claim 6, delete "alkenyl, alkenyl," and insert --alkenyl, alkynyl, --, therefor.

Lines 51-52, in Claim 6, delete "alkenyl, alkenyl," and insert alkenyl, alkynyl,--, therefor.

Column 276

Line 25, in Claim 6, delete "C10" and insert - - C1-10 - -, therefor.

Line 38, in Claim 6, delete "-S(O);" and insert - - -S(O); --, therefor.

Line 50, in Claim 9, delete "C(O)-," and insert - - - C(O)-, - -, therefor.

Line 52, in Claim 10, delete "-S(O)2," and insert - - -S(O)2-, - -, therefor.

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